Lab 3.3 - Let Me Check My Calendar

In this lab, you will write some custom blocks that take arguments and are useful for calculations involving dates and calendars.

# Basics

1. Write a custom SNAP block called "month name" that takes a number between 1 and 12 as an argument and says the name of the corresponding month.
2. Write a custom SNAP block called "day name" that takes a number between 1 and 7 as an argument and says the name of the corresponding day. For our purposes, the week begins on Sunday.
3. Write a custom SNAP block called "days in " that takes a month name as an argument and says how many days are in that month. Assume a non-leap year.

# Going Farther

1. Write a custom SNAP block called "is a leap year" that takes a year number as an argument and says whether or not that year is a leap year.
   * A year is a leap year if the year is a multiple of 4 that is not a multiple of 100 (e.g. 1984), or if it is a multiple of 400 (e.g. 2000). Years that are mutiples of 100 but not mutiples of 400 are NOT leap years (e.g. 1800). See [Wikipedia](https://en.wikipedia.org/wiki/Leap_year" \l "Algorithm" \t "_blank) for more detail.
2. Write a custom SNAP block called "is a valid date" that takes a month name and a date as arguments and says whether or not that date exists in that month. For example, the 31st is a valid date in January, but not in June. The 5th is a valid date in every month, and the 40th is not a valid date in any month.
3. Write a custom SNAP block called "day in year" that takes a year number and a number between 1 and 366 and says the date that corresponds to that numbered day of the specified year. For example, in non-leap years day #1 is January 1, day #32 is February 1, day #365 is December 31, and day #185 is July 4. Give an error message if the number is 366 and a non-leap year is specified.
4. BONUS: Write a custom SNAP block called "day of week" that takes a month name, date, and year as arguments and says the day of week on which that date falls in that year. See[http://en.wikipedia.org/wiki/Determination\_of\_the\_day\_of\_the\_week](http://en.wikipedia.org/wiki/Determination_of_the_day_of_the_week" \t "_blank) for information on finding the day of the week from a date.